Subject: Re: IDL Voodoo Experts Needed

Posted by Liam E. Gumley on Wed, 23 Feb 2000 08:00:00 GMT

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David Fanning wrote:

- > Alright, here is an example of what I wake up to each
- > morning, which might go a long way toward explaining why
- > I never get any productive work done. A fellow writes me
- > (this inevitably happens) on a topic we discussed just
- > a couple of days ago. Namely, he wants to create an
- > array of arrays--BUT, the original array is an array
- > of structures.

>

>

- > He puts the problem like this:
- Is it possible to create an array of arrays of structures?This does not work:

>

- > I={layer,I:0,E:0.0,p:0.0,rho:0.0} ;STRUCT DEFINITION
- > volume=replicate(I,layernum); ARRAY OF STRUCTURES
- > evolution=replicate(volume,timesteps); ARRAY OF ARRAYS OF STRUCTURES

>

- > I tried Craig Markwardt's CMReplicate program and the REBIN/REFORM
- > voodoo offered by Liam Gumley and Bill Thompson, but all to no
- > effect. All complain about structures.

>

- > Since I *really* have to work on taxes and other financial
- > matters this morning, and since I notice quite a few more
- > willing bodies around here than we used to have, I'm turning
- > this one over to the real experts. Any ideas? :-)

I think you're looking for a multi-dimensional array of structures:

0.000000

```
IDL > layer = \{layer, i:0, e:0.0, p:0.0, rho:0.0\}
IDL> nlayers = 40
IDL> ntimesteps = 100
IDL> evolution = replicate(layer, nlayers, ntimesteps)
IDL> help, evolution
                 STRUCT = -> LAYER Array[40, 100]
EVOLUTION
IDL> help, evolution[0, 0], /structure
** Structure LAYER, 4 tags, length=16:
           INT
                       0
 Ε
            FLOAT
                          0.000000
 Ρ
            FLOAT
                          0.000000
```

Am I missing something?

FLOAT

RHO

Cheers, Liam.

--

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